TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :9-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :9-1-2023

Date of testing :9-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.75	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-92

Scanned by CamScanner

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :9-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :9-1-2023

Date of testing :9-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.10	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

Scanned by CamScanner

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :9-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :9-1-2023

Date of testing :9-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.10	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Scanned by CamScanner

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :9-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :9-1-2023

Date of testing :9-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.65	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

Scanned by CamScanner

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :9-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :9-1-2023

Date of testing :9-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.20	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :14-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :14-1-2023

Date of testing :14-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.25	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :14-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :14-1-2023

Date of testing :14-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-೨೬

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :14-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :14-1-2023

Date of testing :14-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.40	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :14-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13
Material description : Wet Mix Macadam
Date of Reciept of :14-1-2023
Date of testing :14-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.45	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :17-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :17-1-2023

Date of testing :17-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.70	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-19

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :17-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :17-1-2023

Date of testing :17-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.75	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :17-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :17-1-2023

Date of testing :17-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.65	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :17-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :17-1-2023

Date of testing :17-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.10	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-೨೫

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :17-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :17-1-2023

Date of testing :17-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.15	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :21-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :21-1-2023

Date of testing :21-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.85	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬಂಗಳೂರು-26

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :21-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :21-1-2023

Date of testing :21-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.25	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :21-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :21-1-2023

Date of testing :21-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.55	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :21-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :21-1-2023

Date of testing :21-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.90	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :21-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :21-1-2023

Date of testing :21-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.80	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಜ್ಞಾಪಿರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-೨೫

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :24-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :24-1-2023

Date of testing :24-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.05	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :24-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :24-1-2023

Date of testing :24-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :24-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :24-1-2023

Date of testing :24-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.95	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

Scanned by CamScanner

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :24-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :24-1-2023

Date of testing :24-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.45	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

Scanned by CamScanner

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :27-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :27-1-2023

Date of testing :27-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.65	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

Scanned by CamScanner

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :27-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :27-1-2023

Date of testing :27-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.30	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :27-1-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Material description : Wet Mix Macadam

Date of Reciept of :27-1-2023

Date of testing :27-1-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.05	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

TEST REPORT ON BITUMEN CONTENT AND GRADATION FOR BITUMINOUS CONCRETE

Date.	:21-3-2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name**	: M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043
Project Name	: Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference	:BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: IS 2720 (Part-4)- 1985 RA 2015, AASHTO T 164 & AASHTO T 30 & MORTH
Location	:MCEHS Layout
Material description	: Bituminous Concrete
Sample	:21-3-2023
Date of testing	:21-3-2023

BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	469.5	471
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	30.50	29.00
7. Bitumen content in %	6.10	5.80
8. Average	**5.95**	

Total Wt. of Aggregates in gms 469.5

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Scanned by CamScanner

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	30.6	30.6	6.52	93.48	90- 100
9.5	65.4	96	20.45	79.55	70 - 88
4.75	92.6	188.6	40.17	59.83	53 - 71
2.36	81.5	270.1	57.53	42.47	42 - 58
1.18	37.7	307.8	65.56	34.44	34 - 48
0.6	27.9	335.7	71.50	28.50	26 - 38
0.3	41.1	376.8	80.26	19.74	18 - 28
0.15	27.5	404.3	86.11	13.89	12 - 20
0.075	35.5	439.8	93.67	6.33	4 - 10
Total Wt. of Aggregates in gms		471			

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	32.5	32.5	6.90	93.10	90- 100
9.5	46.6	79.1	16.79	83.21	70 - 88
4.75	85.7	164.8	34.99	65.01	53 - 71
2.36	72.6	237.4	50.40	49.60	42 - 58
1.18	67.6	305	64.76	35.24	34 - 48
0.6	35.1	340.1	72.21	27.79	26 - 38
0.3	34.5	374.6	79.53	20.47	18 - 28
0.15	30.6	405.2	86.03	13.97	12 - 20
0.075	36.7	441.9	93.82	6.18	4 - 10

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of theReport *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಜ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-28

Scanned by CamScanner

TEST REPORT ON BITUMEN CONTENT AND GRADATION FOR BITUMINOUS CONCRETE

Date.	:26-3-2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name**	: M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043
Project Name	: Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference	:BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: IS 2720 (Part-4)- 1985 RA 2015, AASHTO T 164 & AASHTO T 30 & MORTH
Location	:Royal Enclave
Material description	: Bituminous Concrete
Sample	:26-3-2023
Date of testing	:26-3-2023

TEST RESULTS

BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	471	470
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	29.00	30.00
7. Bitumen content in %	5.80	6.00
8. Average	5.90	

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Scanned by CamScanner

Total Wt. of Aggregates in gms 471

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	30.6	30.6	6.50	93.50	90- 100
9.5	65.1	95.7	20.32	79.68	70 - 88
4.75	83.5	179.2	38.05	61.95	53 - 71
2.36	58.3	237.5	50.42	49.58	42 - 58
1.18	43.1	280.6	59.58	40.42	34 - 48
0.6	26.5	307.1	65.20	34.80	26 - 38
0.3	49.7	356.8	75.75	24.25	18 - 28
0.15	36.2	393	83.44	16.56	12 - 20
0.075	44.2	437.2	92.82	7.18	4 - 10

Total Wt. of Aggregates in gms 470

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	32.2	32.2	6.85	93.15	90- 100
9.5	45.5	77.7	16.53	83.47	70 - 88
4.75	86.5	164.2	34.94	65.06	53 - 71
2.36	65.4	229.6	48.85	51.15	42 - 58
1.18	79.6	309.2	65.79	34.21	34 - 48
0.6	28.6	337.8	71.87	28.13	26 - 38
0.3	35.3	373.1	79.38	20.62	18 - 28
0.15	23.8	396.9	84.45	15.55	12 - 20
0.075	55.3	452.2	96.21	3.79	4 - 10

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of theReport *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ರಾಜಾಜಿನಗರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-೨೫

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

TEST REPORT ON BITUMEN CONTENT AND GRADATION FOR BITUMINOUS CONCRETE

Date. :29-3-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, AASHTO T 164 & AASHTO T 30 & MORTH

Location :Shivapura

Material description : Bituminous Concrete

Sample :29-3-2023

Date of testing :29-3-2023

TEST RESULTS

BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	472	470
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	28.00	30.00
7. Bitumen content in %	5.60	6.00
8. Average	5.80	

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-೨೬

Scanned by CamScanner

Total Wt. of Aggregates in gms 472

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	30.6	30.6	6.48	93.52	90- 100
9.5	65.1	95.7	20.28	79.72	70 - 88
4.75	83.5	179.2	37.97	62.03	53 - 71
2.36	58.3	237.5	50.32	49.68	42 - 58
1.18	43.1	280.6	59.45	40.55	34 - 48
0.6	26.5	307.1	65.06	34.94	26 - 38
0.3	49.7	356.8	75.59	24.41	18 - 28
0.15	36.2	393	83.26	16.74	12 - 20
0.075	44.2	437.2	92.63	7.37	4 - 10

Total Wt. of Aggregates in gms 470

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	32.2	32.2	6.85	93.15	90- 100
9.5	45.5	77.7	16.53	83.47	70 - 88
4.75	86.5	164.2	34.94	65.06	53 - 71
2.36	65.4	229.6	48.85	51.15	42 - 58
1.18	79.6	309.2	65.79	34.21	34 - 48
0.6	28.6	337.8	71.87	28.13	26 - 38
0.3	35.3	373.1	79.38	20.62	18 - 28
0.15	23.8	396.9	84.45	15.55	12 - 20
0.075	55.3	452.2	96.21	3.79	4 - 10

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of theReport *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಚಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-೨೬

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON GRADATION

Date. :20-3-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2720 (Part-4)- 1985 RA 2020, MORTH Table 500-17

Material description : Bituminous Concrete

Date of Reciept of Sample :20-3-2023

Date of testing :20-3-2023

TEST RESULTS

Total Wt. of Aggregates in gms 5100

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
.19	0	0	0	100	100
13.2	215	215	4.22	95.78	90- 100
9.5	729	944	18.51	81.49	70 - 88
4.75	856	1800	35.29	64.71	53 - 71
2.36	420	2220	43.53	56.47	42 - 58
1.18	525	2745	53.82	46.18	34 - 48
0.6	555	3300	64.71	35.29	26 - 38
0.3	449	3749	73.51	26.49	18 - 28
0.15	499	4248	83.29	16.71	12 - 20
0.075	455	4703	92.22	7.78	4 - 10

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-17

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of the Report *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON GRADATION

Date. :25-3-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2720 (Part-4)- 1985 RA 2020, MORTH Table 500-17

Material description : Bituminous Concrete

Date of Reciept of Sample :25-3-2023

Date of testing :25-3-2023

TEST RESULTS

Total Wt. of Aggregates in gms 5100

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	222	222	4.35	95.65	90- 100
9.5	735	957	18.76	81.24	70 - 88
4.75	859	1816	35.61	64.39	53 - 71
2.36	433	2249	44.10	55.90	42 - 58
1.18	520	2769	54.29	45.71	34 - 48
0.6	540	3309	64.88	35.12	26 - 38
0.3	455	3764	73.80	26.20	18 - 28
0.15	455	4219	82.73	17.27	12 - 20
0.075	453	4672	91.61	8.39	4 - 10

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-17

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of the Report *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ ಕಛೇರಿ
ಬೈಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-೯೨

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON GRADATION

Date. :28-3-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043

Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2720 (Part-4)- 1985 RA 2020, MORTH Table 500-17

Material description : Bituminous Concrete

Date of Reciept of Sample :28-3-2023

Date of testing :28-3-2023

TEST RESULTS

Total Wt. of Aggregates in gms 5100

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	225	225	4.41	95.59	90- 100
9.5	735	960	18.82	81.18	70 - 88
4.75	859	1819	35.67	64.33	53 - 71
2.36	429	2248	44.08	55.92	42 - 58
1.18	522	2770	54.31	45.69	34 - 48
0.6	533	3303	64.76	35.24	26 - 38
0.3	452	3755	73.63	26.37	18 - 28
0.15	459	4214	82.63	17.37	12 - 20
0.075	451	4665	91.47	8.53	4 - 10

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-17

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of the Report *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON AGGREGATE IMPACT VALUE

Date.	:20-3-2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence
***Contractor Name**	: M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043
Project Name	: Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub
Letter Reference	:BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: IS 2386 (Part-4)- 1963 RA 2020, MORTH Table 500-17
Material description	: Bituminous Concrete
Date of Reciept of	:20-3-2023
Date of testing	:20-3-2023

TEST RESULTS

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	377	375	376	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	81	83	82	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	296	292	294	
4	Aggregate Impact value = percent fines	21.49	22.13	21.81	
	100* (W_2/W_1)%				21.81

Remarks: Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of the Report *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಕಾರ್ಯಾಲಯಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-೨೬

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON AGGREGATE IMPACT VALUE

Date.	:25-3-2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name**	: M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043
Project Name	: Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub
Letter Reference	:BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: IS 2386 (Part-4)- 1963 RA 2020, MORTH Table 500-17
Material description	: Bituminous Concrete
Date of Reciept of	:25-3-2023
Date of testing	:25-3-2023

TEST RESULTS

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	375	372	377	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	84	82	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	292	288	295	
4	Aggregate Impact value = percent fines	22.13	22.58	21.75	
	100* (W_2/W_1)%				22.15

Remarks: Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of the Report *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

1048, 8th Block Extension, Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON AGGREGATE IMPACT VALUE

Date. :28-3-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043
Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub
Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2386 (Part-4)- 1963 RA 2020, MORTH Table 500-17
Material description : Bituminous Concrete
Date of Reciept of :28-3-2023
Date of testing :28-3-2023

TEST RESULTS

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	376	375	374	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	82	81	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	293	293	293	
4	Aggregate Impact value = percent fines	22.07	21.87	21.66	
	100* (W_2/W_1)%				**21.87**

Remarks: Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%

Notes:-
- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of the Report *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON BITUMEN

Date.	:20-3-2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name**	: M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043
Project Name	: Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub
Letter Reference	:BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: IS 73 -2013
Material description	: VG 30 Bitumen
Date of Reciept of Sample	:20-3-2023
Date of testing	:20-3-2023

TEST RESULTS

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl.No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	58	Min 45
2	Softening point, ^{0}C	49	Min. 47
3	Ductility at 27^{0}C, cm	> 100	Min. 40
4	Flash Point, ^{0}C	364	Min. 220

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of the Report *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

TEST REPORT ON BITUMEN

Date.	:25-3-2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name**	: M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name	: Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference	:BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: IS 73 -2013
Material description	: VG 30 Bitumen
Date of Reciept of Sample	:25-3-2023
Date of testing	:25-3-2023

TEST RESULTS

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl.No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	59	Min 45
2	Softening point, ^{0}C	47	Min. 47
3	Ductility at 27^{0}C, cm	> 100	Min. 40
4	Flash Point, ^{0}C	361	Min. 220

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of the Report *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON BITUMEN

Date.	:28-3-2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name**	: M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name	: Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference	:BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: IS 73 -2013
Material description	: VG 30 Bitumen
Date of Reciept of Sample	:28-3-2023
Date of testing	:28-3-2023

TEST RESULTS

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl.No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	57	Min 45
2	Softening point, ^{0}C	48	Min. 47
3	Ductility at 27^{0}C, cm	> 100	Min. 40
4	Flash Point, ^{0}C	363	Min. 220

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of the Report *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

TEST REPORT ON FLAKINESS & ELONGATION

Date.	:20-3-2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name**	: M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Hon Bengaluru-560043
Project Name	: Improvements to Roads and Drains at MCEHS Layout 1st and 2nd I Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanap Division.
Letter Reference	:BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: IS:2386(part 1)-1963 RA 2016, MORTH Table 500-17
Material description	: Bituminous Concrete
Date of Reciept of Sample	:20-3-2023
Date of testing	:20-3-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 500-17
1	Flakiness Index	16.40%	Maximum allowable Flakiness & Elongation Index for Bituminous Concrete is 30%
2	Elongation Index	12.55%	
	Combined Flakiness & Elongation	**28.95%**	

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-17

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of the Report *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-೨೬

Scanned by CamScanner

TEST REPORT ON FLAKINESS & ELONGATION

Date.	:25-3-2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name**	: M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Hor Bengaluru-560043
Project Name	: Improvements to Roads and Drains at MCEHS Layout 1st and 2nd f Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanap
Letter Reference	:BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: IS:2386(part 1)-1963 RA 2016, MORTH Table 500-17
Material description	: Bituminous Concrete
Date of Reciept of Sample	:25-3-2023
Date of testing	:25-3-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 500-17
1	Flakiness Index	16.00%	Maximum allowable Flakiness & Elongation Index for Bituminous Concrete is 30%
2	Elongation Index	11.50%	
	Combined Flakiness & Elongation	**27.50%**	

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-17

Notes:-
- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of the Report *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON FLAKINESS & ELONGATION

Date.	:28-3-2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name**	: M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Hon Bengaluru-560043
Project Name	: Improvements to Roads and Drains at MCEHS Layout 1st and 2nd I Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapı
Letter Reference	:BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: IS:2386(part 1)-1963 RA 2016, MORTH Table 500-17
Material description	: Bituminous Concrete
Date of Reciept of Sample	:28-3-2023
Date of testing	:28-3-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 500-17
1	Flakiness Index	16.60%	Maximum allowable Flakiness & Elongation index for Bituminous Concrete is 30%
2	Elongation Index	11.50%	
	Combined Flakiness & Elongation	**28.10%**	

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-17

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of the Report *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-೨೬

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

TEST REPORT ON SPECIFIC GRAVITY AND WATER ABSORPTION

Date.	:20-3-2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name**	:M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043Vidyaranyapura,Bengaluru-560097
Project Name	: Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara
Letter Reference	:BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: IS 2386 (Part-4)- 1963 RA 2016, MORTH Table 500-17
Material description	: Bituminous Concrete
Date of Reciept of Sample	:20-3-2023
Date of testing	:20-3-2023

TEST RESULTS

Total Wt. of Sample = 2000 gms

Sl. No.	Description	Notation	Test Result	
			Trail 1	Trail 2
1	Weight of Aggregate Suspended in water with the Basket (in gms)	A1	3736.0	3737.0
2	Weight of Empty Basket suspended in Water (in gms)	A2	2467.0	2465.0
3	Weight of Saturarted aggregate in water (in gms) = (A1-A2)	A	1269.0	1272.0
4	Weight of saturated surface dry aggregate in air (in gms)	B	2008	2009
5	Weight of oven dry Aggregate (in gms)	C	1996.5	1997.0

Result :	1. Specific gravity = (C/B-A)	2.70	2.71
	2. Water Absorption in Percentage = (B-C*100/C)	0.58	0.60

Remarks: Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

***** End of the Report *****

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬಿ.ಬಿ.ಎಂ.ಪಿ.

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON SPECIFIC GRAVITY AND WATER ABSORPTION

Date. :25-3-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name** :M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043Vidyaranyapura,Bengaluru-560097
Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara
Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2386 (Part-4)- 1963 RA 2016, MORTH Table 500-17
Material description : Bituminous Concrete
Date of Reciept of Sample :25-3-2023
Date of testing :25-3-2023

TEST RESULTS

Total Wt. of Sample = 2000 gms

Sl. No.	Description	Notation	Test Result	
			Trail 1	Trail 2
1	Weight of Aggregate Suspended in water with the Basket (in gms)	A1	3737.0	3736.0
2	Weight of Empty Basket suspended in Water (in gms)	A2	2455.0	2462.0
3	Weight of Saturarted aggregate in water (in gms) = (A1-A2)	A	1282.0	1274.0
4	Weight of saturated surface dry aggregate in air (in gms)	B	2006	2007
5	Weight of oven dry Aggregate (in gms)	C	1996.0	1996.5

Result : 1. Specific gravity = (C/B-A) — 2.76 — 2.72
2. Water Absorption in Percentage = (B-C*100/C) — 0.50 — 0.53

Remarks: Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%

Notes:-
- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

*** End of the Report ***

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಬೃಹತ್ ಬೆಂಗಳೂರು ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಉಪ ವಿಭಾಗ

1048, 8th Block Extension, Ganguram Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON SPECIFIC GRAVITY AND WATER ABSORPTION

Date.	:28-3-2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name**	:M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043Vidyaranyapura,Bengaluru-560097
Project Name	: Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara
Letter Reference	:BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: IS 2386 (Part-4)- 1963 RA 2016, MORTH Table 500-17
Material description	: Bituminous Concrete
Date of Reciept of Sample	:28-3-2023
Date of testing	:28-3-2023

TEST RESULTS

Total Wt. of Sample = 2000 gms

Sl. No.	Description	Notation	Test Result	
			Trail 1	Trail 2
1	Weight of Aggregate Suspended in water with the Basket (in gms)	A1	3735.0	3737.0
2	Weight of Empty Basket suspended in Water (in gms)	A2	2455.0	2462.0
3	Weight of Saturarted aggregate in water {in gms) = (A1-A2)	A	1280.0	1275.0
4	Weight of saturated surface dry aggregate in air {in gms)	B	2008	2007
5	Weight of oven dry Aggregate (in gms)	C	1997.0	1997.0

Result :	1. Specific gravity = (C/B-A)	2.74	2.73
	2. Water Absorption in Percentage = (B-C*100/C)	0.55	0.50

Remarks: Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

***** End of the Report *****

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

TEST REPORT ON SPECIFIC GRAVITY AND WATER ABSORPTION

Date.	:28-3-2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name**	:M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043Vidyaranyapura,Bengaluru-560097
Project Name	: Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara
Letter Reference	:BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: IS 2386 (Part-4)- 1963 RA 2016, MORTH Table 500-17
Material description	: Bituminous Concrete
Date of Reciept of Sample	:28-3-2023
Date of testing	:28-3-2023

TEST RESULTS

Total Wt. of Sample = 2000 gms

Sl. No.	Description	Notation	Test Result	
			Trail 1	Trail 2
1	Weight of Aggregate Suspended in water with the Basket (in gms)	A1	3735.0	3737.0
2	Weight of Empty Basket suspended in Water (in gms)	A2	2455.0	2462.0
3	Weight of Saturarted aggregate in water (in gms) = (A1-A2)	A	1280.0	1275.0
4	Weight of saturated surface dry aggregate in air (in gms)	B	2008	2007
5	Weight of oven dry Aggregate (in gms)	C	1997.0	1997.0

Result :	1. Specific gravity = (C/B-A)	2.74	2.73
	2. Water Absorption in Percentage = (B-C*100/C)	0.55	0.50

Remarks: Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%

Notes:-
- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Bangalore

*** End of the Report ***

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Scanned by CamScanner

TEST REPORT ON STABILITY OF MIX

Date.	:20-3-2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name**	: M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043
Project Name	: Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub
Letter Reference	:BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: MORTH Table 500-17
Material description	: Bituminous Concrete
Date of Reciept of Sample	:20-3-2023
Date of testing	:20-3-2023

TEST RESULTS

Sl.No	Description	Test Result		Requirement as per MORTH
		Trail 1	Trail 2	
1	Marshal Stability, Kn	9.55	10.15	9 Kn (min)
2	Marshal flow, mm	2.60	2.50	2 – 4
3	Percent air voids in Mix	12.15	12.54	11 – 13
4	Percent voids in mineral aggregates	4.30	4.15	3 – 5
5	Percent voids filled with Bitumen	69.80	69.45	65 - 75
6	Density, g/cc	2.25	2.24	-

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of the Report *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ನಿರ್ವಾಹಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON STABILITY OF MIX

Date.	:25-3-2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name**	: M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043
Project Name	: Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub
Letter Reference	:BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: MORTH Table 500-17
Material description	: Bituminous Concrete
Date of Reciept of Sample	:25-3-2023
Date of testing	:25-3-2023

TEST RESULTS

Sl.No	Description	Test Resuit		Requirement as per MORTH
		Trail 1	Trail 2	
1	Marshal Stability, Kn	9.70	10.10	9 Kn (min)
2	Marshal flow, mm	2.50	2.30	2 – 4
3	Percent air voids in Mix	12.35	12.52	11 – 13
4	Percent voids in mineral aggregates	4.15	4.30	3 – 5
5	Percent voids filled with Bitumen	68.45	69.55	65 - 75
6	Density, g/cc	2.26	2.23	-

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of the Report *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON STABILITY OF MIX

Date.	:28-3-2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name**	: M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043
Project Name	: Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub
Letter Reference	:BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: MORTH Table 500-17
Material description	: Bituminous Concrete
Date of Reciept of Sample	:28-3-2023
Date of testing	:28-3-2023

TEST RESULTS

Sl.No	Description	Test Result		Requirement as per MORTH
		Trail 1	Trail 2	
1	Marshal Stability, Kn	9.83	10.11	9 Kn (min)
2	Marshal flow, mm	2.55	2.25	2 – 4
3	Percent air voids in Mix	12.19	12.54	11 – 13
4	Percent voids in mineral aggregates	4.34	4.16	3 – 5
5	Percent voids filled with Bitumen	68.44	69.53	65 - 75
6	Density, g/cc	2.23	2.24	-

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of the Report *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Vishveshwaraiah Layout, Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

Scanned by CamScanner

DETERMINATION OF RATE OF SPREAD TACK COAT

Date. :21-3-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043
Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name : Shiprama Consulting Engineers
Location :MCHES Layout
Date of testing :21-3-2023

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	mt	0.45 X 0.45	0.45 X 0.45
Area of Plate (a)	Sq.m	0.2029	0.2029
Intial Wt of empty Plate (b)	Kg	1.627	1.628
Final weight of plate after application of prime /Tack Coat (c)	Kg	1.682	1.679
Weight of Prime/Tack Coat (d=c-b)	Kg	0.0550	0.0510
Rate of spread of prime /tack coat	kg/Sq.m	0.271	0.251
Average	kg/Sq.m	0.261	
Specified Limit	kg/Sq.m	0.25 Kg/sq.m	

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

***** End of the Report *****

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿಬಿಎಂಪಿ ಬೃಹತ್ ಬೆಂಗಳೂರು-24

Scanned by CamScanner

DETERMINATION OF RATE OF SPREAD TACK COAT

Date. :26-3-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043
Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name : Shiprama Consulting Engineers
Location :Royal Enclave
Date of testing :26-3-2023

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	mt	0.45 X 0.45	0.45 X 0.45
Area of Plate (a)	Sq.m	0.2029	0.2029
Intial Wt of empty Plate (b)	Kg	1.630	1.630
Final weight of plate after application of prime /Tack Coat (c)	Kg	1.682	1.680
Weight of Prime/Tack Coat (d=c-b)	Kg	0.0520	0.0500
Rate of spread of prime /tack coat	kg/Sq.m	0.256	0.246
Average	kg/Sq.m	0.251	
Specified Limit	kg/Sq.m	0.25 Kg/sq.m	

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

***** End of the Report *****

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.

Scanned by CamScanner

DETERMINATION OF RATE OF SPREAD TACK COAT

Date. :26-3-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name** : M/s Sri A G Narayanaswamy, no 13 Venkateshwara Layout, Horamavu, Bengaluru-560043
Project Name : Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference :BBMP/EE/BTP/WO/80/2022-23, Dated:22-12-2022
PMC Name : Shiprama Consulting Engineers
Location :Shivapura
Date of testing :26-3-2023

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	mt	0.45 X 0.45	0.45 X 0.45
Area of Plate (a)	Sq.m	0.2029	0.2029
Intial Wt of empty Plate (b)	Kg	1.627	1.628
Final weight of plate after application of prime /Tack Coat (c)	Kg	1.686	1.683
Weight of Prime/Tack Coat (d=c-b)	Kg	0.0590	0.0550
Rate of spread of prime /tack coat	kg/Sq.m	0.291	0.271
Average	kg/Sq.m	0.281	
Specified Limit	kg/Sq.m	0.25 Kg/sq.m	

Notes:-

- This Test Report refers only to the sample Submitted for testing.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

***** End of the Report *****

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ.

Scanned by CamScanner